

SPRAYED "Limpet" ASBESTOS



HAMILTON COMPANY, Inc.
4239 Lindell Boulevard
St. Louis, Missouri

THE MODERN ACOUSTICAL TREATMENT

KEASBEY & MATTISON
COMPANY AMBLER, PENNA.

39-B



"Sprayed" "LIMPET" ASBESTOS

THE requirements of any good acoustical material are: correct sound absorption, light weight and easy installation. Sprayed "*Limpet*" Asbestos possesses all these properties.

The method of application is the most modern and improved known today; a coating of Asbestos Fibre, of the desired thickness, is applied and built up in one operation. It may be sprayed on ceilings or side walls and will adhere to any surface whether plaster, metal, wood, brick, concrete, lath or even glass.

This spray method of application is well suited for ceilings of irregular shape where good acoustics are especially important. The treatment of barrelled ceilings, coves or arches with Sprayed "*Limpet*" is simpler than with the use of a pre-formed material.

In addition to its exceptional acoustical properties, Sprayed "*Limpet*" is non-combustible, moisture-resistant, will not harbor vermin, and has low thermal conductivity.

MATERIALS: The materials used in the Sprayed "*Limpet*" process are specially prepared Asbestos Fibre and bonding materials. Specification for a particular application will depend on atmospheric conditions and the color and architectural effects desired.

EQUIPMENT: The equipment used for applying Sprayed "*Limpet*" is the Roberts Spray Machine and accessories (see above illustration). This machine is so constructed that it feeds out Asbestos Fibre in a thoroughly willowed state—that is, dry and well opened. A liquid is combined with the fibre in mid-air and the two agents are sprayed upon the surface. The operation is continued until the desired thickness is obtained. The surface is then leveled off by pressing or rolling.

This unique method of application forms a felted coating which is extremely light in weight. One square foot one inch thick weighs approximately 12 ounces.

ACOUSTICAL TREATMENT: Echoes and excessive reverberation in theatres, churches, and other large indoor places are corrected by the use of Sprayed "*Limpet*". The effectiveness of "*Limpet*" coatings has been proven by actual tests which show that the sound absorption is equal to or better than the best acoustical tiles.

Sprayed "*Limpet*" does not depend entirely on surface porosity for sound absorption. The underlying felt-like layer permits the surface to act also as a modified diaphragm.

Sprayed "*Limpet*" forms a continuous coating unbroken by joints or seams. Application is rapid and mechanical supports are unnecessary.

Many Decorative Effects OBTAINED WITH SPRAYED "LIMPET" ASBESTOS

VARIOUS surface effects are possible ranging from a smooth to a textured finish. Murals, stencils and other designs may be executed to lend additional beauty to the panelling. On sidewalls, "Limpet" can be scored into blocks while damp and tinted to give the general appearance of Travertine Stone.

For the proper decorative effect, painting is usually required. Painting should be done by a contractor experienced in acoustical work (preferably by the "Limpet" applicator).

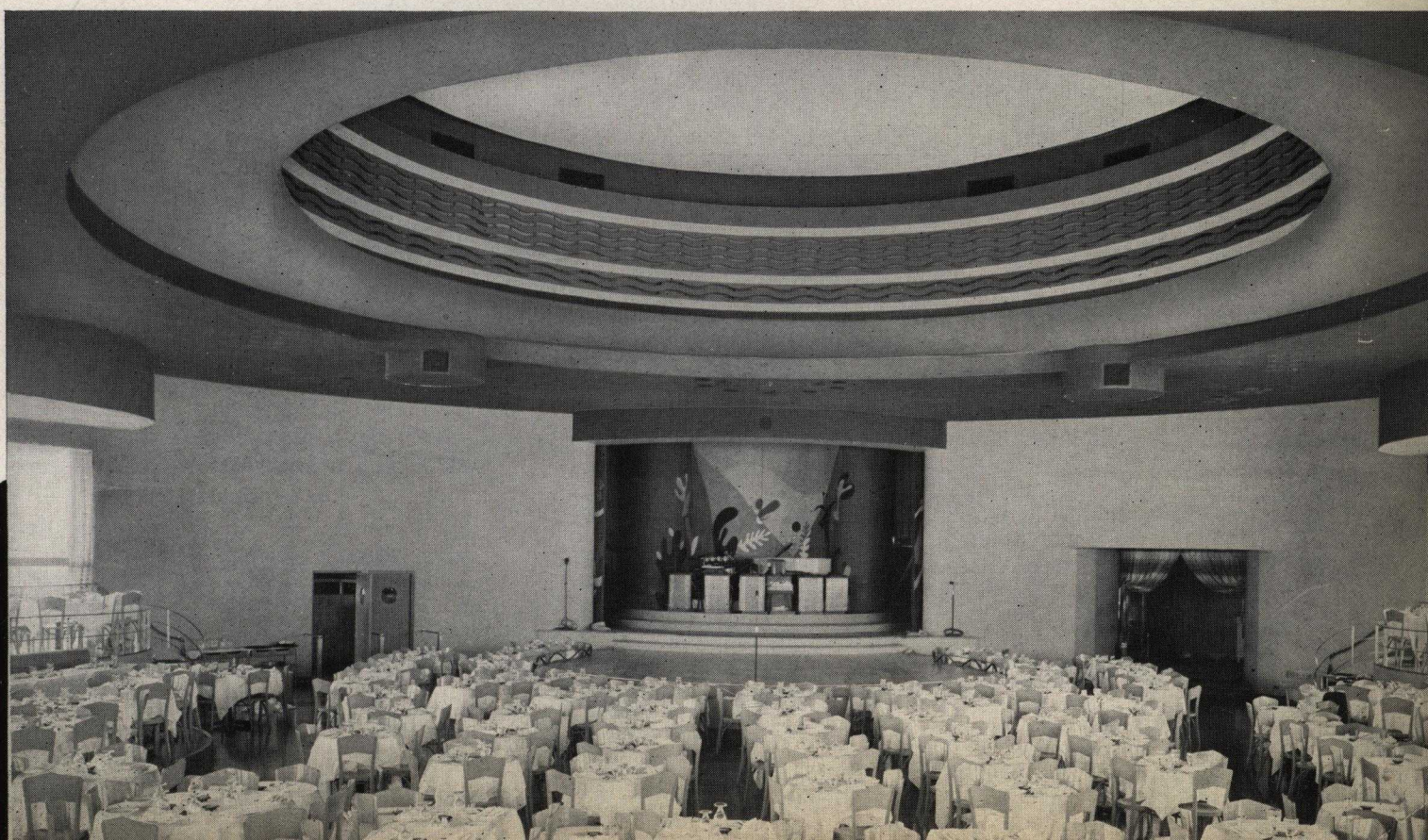
Sprayed "Limpet" retains its high acoustical efficiency after painting because of the diaphragmatic action of the under layer of fibre. The table below shows the very slight effect of repeated coats of paint.

The following figures are from tests made at the National Bureau of Standards

Copy of complete reports available on request

COEFFICIENTS OF SOUND ABSORPTION

| Frequencies | 128 | 256 | 512 | 1024 | 2048 | 4096 | Noise Coeff. | Remarks |
|---------------------------------------|-----|-----|-----|------|------|------|--------------|--------------------------------------|
| 1/2" thick, unpainted | .07 | .17 | .49 | .70 | .79 | .67 | .55 | On solid back. |
| 3/4" thick, unpainted | .13 | .31 | .66 | .83 | .74 | .66 | .65 | |
| 1" thick, unpainted | .17 | .38 | .81 | .83 | .78 | .78 | .70 | |
| 1" thick, spray painted 3 coats | .16 | .37 | .82 | .80 | .71 | .77 | .70 | Oil Emulsion Paint |
| 1" thick, spray painted 10 coats | .16 | .41 | .86 | .81 | .81 | .88 | .70 | |
| 3/8" thick, unpainted | .54 | .87 | .78 | .73 | .78 | .75 | .80 | On Metal Lath. |
| 1/2" thick, unpainted | .57 | .87 | .83 | .78 | .84 | .87 | .85 | |
| 3/4" thick, unpainted | .59 | .94 | .90 | .78 | .87 | .83 | .85 | |
| 3/4" thick, spray painted 3 coats | .52 | .94 | .89 | .80 | .91 | .91 | .90 | Oil Emulsion Paint |
| 3/4" thick, spray painted 10 coats | .58 | .93 | .87 | .84 | .88 | .84 | .90 | |
| 3/8" thick, brush painted 6 coats | .56 | .78 | .70 | .54 | .53 | .59 | .65 | On Metal Lath. Lead and Oil Paint |





OTHER PROPERTIES

SPRAYED "LIMPET" ASBESTOS APPLIED TO CEILING IN
"CHRYSLER" BUILDING, NEW YORK CITY

RESISTANT TO FIRE: Sprayed "Limpet" Asbestos stood up under a recent fire test* with no combustion at temperatures up to 1700° F.

**A copy of complete report available by writing Keasbey & Mattison Company, Ambler, Pa.*

RESISTANT TO MOISTURE: Sprayed "Limpet" Asbestos has been used as a treatment for ceilings of swimming pools.

SANITARY: Sprayed "Limpet" Asbestos offers a clean and sanitary treatment for use in hospitals.

LIST OF A FEW REPRESENTATIVE APPLICATIONS

JOB

Out Patient Clinic Building, Medical College of Virginia, Richmond, Va.
Chrysler Automobile Salon, Chrysler Building, New York City
Union News Cafeteria, Radio City, New York City
Siwanoy Country Club, Bronxville, New York
Williamsburg Inn (Rockefeller Restoration) Williamsburg, Va.
Longchamp's Restaurant, New York City
Ben Marden's Riviera, Fort Lee, New Jersey
Sholl's Restaurant, Washington, D. C.
Amherst College Swimming Pool, Amherst, Mass.
Union News Cafeteria P. R. R. Station, Newark, New Jersey
Jewish Memorial Hospital, New York City
Out Patient Building—Greenpoint Hospital, Brooklyn, New York
Gotham Hotel, New York City

ARCHITECT

Baskervill & Sons, Richmond, Va.
Reinhard & Hofmeister, New York, N. Y.
Reinhard & Hofmeister, New York, N. Y.
Reinhard & Hofmeister, New York, N. Y.
Perry, Shaw & Hepburn, Boston, Mass.
Louis Allen Abramson, New York, N. Y.
Louis Allen Abramson, New York, N. Y.
Donald S. Johnson, Washington, D. C.
McKim, Mead & White, New York, N. Y.
McKim, Mead & White, New York, N. Y.
Charles B. Meyers, New York, N. Y.
Charles B. Meyers, New York, N. Y.
D. Everett Waid, New York, N. Y.

SL-2-5000-6-39

•• YOU JUST SPRAY IT ON ••



KEASBEY & MATTISON
COMPANY AMBLER, PENNA.



Digitized by:



**ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL**

www.apti.org

**BUILDING
TECHNOLOGY
HERITAGE
LIBRARY**

<https://archive.org/details/buildingtechnologyheritagelibrary>

From the collection of:

**NATIONAL
BUILDING
ARTS
CENTER**

<http://web.nationalbuildingarts.org>